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KDBEX

TYPE EXAMINATION CERTIFICATE

- [1] **TYPE EXAMINATION CERTIFICATE**
- [2] Equipment, components as well as control and measurement equipment intended for use in potentially explosive atmospheres. Directive 2014/34/EU (Rozporządzenie Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817)
- [3] Type examination certificate (optional):
KDB 19ATEX0017X **0 edition**
- [4] Equipment
GentleSpace Gen 3 type BY482P and BY483P light fittings
- [5] Manufacturer:
Signify Hungary Ltd
- [6] Address
Szabedsag u. 106-107, 7090 Tamasi, Hungary
- [7] This equipment and any acceptable variations thereto are specified in the schedule to this certificate
- [8] The Central Mining Institute, Conformity Assessment Body, certifies that the equipment specified in this certificate has been found to comply with the essential health and safety requirements relating to the design and construction of electrical and non-electrical equipment of Category 3 or non-electrical equipment of Category 2 intended for use in potentially explosive atmosphere given in Annex II to Directive 2014/34/EU (Załącznik nr 2 Rozporządzenia Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817).
The results of the assessment and examinations as well as the list of agreed documentation are recorded in the confidential Report **KDB No 19.025 [T-7580]**
- [9] The essential health and safety requirements have been met by compliance with the requirements of the following standards:
**EN 60079-0:2012 + A11:2013; EN 60079-15:2010;
EN 60079-31:2014**
- [10] If sign "X" is placed after the certificate number, this means the specific conditions of use set out in the schedule to this certificate.
- [11] This type examination certificate relates only to the construction, assessment and testing of the specified product in accordance with Directive 2014/34 /EU (Rozporządzenie Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817). The certificate shall not cover the remaining requirements of the Directive regarding the manufacturing process and placing the equipment on the market.
- [12] The marking of the equipment is included in the descriptive part of the certificate.

inż. **Andrzej Trębaczewski**

ATEX Certification
Expert



Główny Instytut Górnictwa
Jednostka Oceny Zgodności
p.o. KIEBOWNIKA

dr inż. **Dariusz Stefanick**

Date of issue: **27 September 2019**

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PC-ATEX-01/1/sen ed.1, 03.2019

[13]
[14]

SCHEDULE
Type examination certificate
KDB 19ATEX0017X 0 edition



[15] Description:

Explosion proof light fittings type GentleSpace gen 3 are category 3 equipment. Light fittings have an aluminium body and glass lampshade. LED modules are used as a light source.

Equipment marking:

Light fittings type BY483P LED350S



II 3G Ex nA IIC T4 Gc
II 3D Ex tc IIIC T85°C Dc

Light fittings type BY482P 130S
and type BY483P LED250S

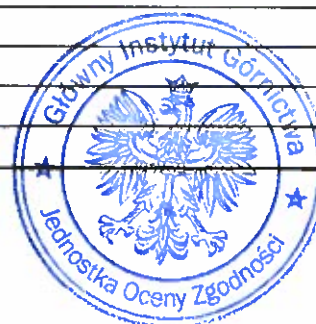


II 3G Ex nA IIC T5 Gc
II 3D Ex tc IIIC T70°C Dc

There are following types of explosion proof light fittings:

BY48 2P LED130S /840 PSD WB GC WH BR
 1 2 3 4 5 6 7 8 9

1.	BY48	Code of the family
2.	2P	Version type:
		2P - small housing ATEX 3P - large housing ATEX
3.	LED130S	LBA AreaP lft [lumen]:
		LED130S - 13000 lm; 84W LED250S - 25000 lm; 162W LED350S - 35000 lm; 232W
4.	840	LBA AreaP lft, color version, CRI ≥80:
		840 -CCT = 4000 K 865 - CCT = 6500 K
5.	PSD	Power supply unit:
		PSD - Power supply unit with DALI interface (integrated) PSD CLO - PSD with Constant Light Output
6.	WB	Optic beam indication:
		WB - wide beam MB - medium beam HRO - high rack optic NB - narrow beam XNB - extra narrow beam
7.	GC	Type of cover:
		GC - glass cover
8.	BR	Mounting feature:
		BR - Mounting bracket SMT - Susspension wire
9.	WH	Luminaire color:
		WH - white SI - silver





Following components are used in GentleSpace light fittings:
- Connector and cable gland type RST20i5, SEV 07 ATEX0110X, manufacturer Wieland.

Technical parameters:

rated voltage:	220V ~ 240V AC
rated frequency:	50Hz/60Hz
rated power:	84W ~ 232W
ambient temperature:	-30°C do +45°C
ingress protection IP:	IP65

[16] Test Report:

KDB No 19.025

[17] Special conditions of use:

- Ambient temperature range $-30^{\circ}\text{C} \leq T_a \leq +45^{\circ}\text{C}$

[18] Essential health and safety requirements:

Met by fulfilling the requirements of the following standards:

EN 60079-0:2012 + A11:2013; EN 60079-15:2010;

EN 60079-31:2014

PN-EN 60079-0:2013-03 + A11:2014-03; PN-EN 60079-15:2010;

PN-EN 60079-31:2014-10)

Document history:

- Type examination certificate KDB 07ATEX135X, 0 edition of September 27, 2019, initial certification.

